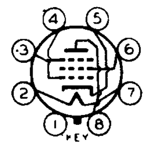
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TELEVISION AMPLIFIER PENTODE

SINGLE-ENDED METAL TYPE

Heater★	Coated Unipotential Cathode		
Voltage	6.3		a-c or d-c volts
Current	0.45		amp.
Direct Interelectrode Capacitances:°			
Grid to Plate	0.015 max.		μμf
Input	8		μμf
Output	5		μμf
Maximum Overall Length			2-5/8"
Maximum Seated Height			2-1/16"
Maximum Diameter			1-5/16"
Bulb			Metal Shell, MT-8
Base			Small Wafer Octal 8-Pin



Pin 1 - Shell
Pin 2 - Heater
Pin 3 - Suppressor
Pin 4 - Grid
Pin 5 - Cathode
Pin 6 - Screen
Pin 7 - Heater
Pin 8 - Plate

BOTTOM VIEW (8N)

Mounting Position: Any

AMPLIFIER

Plate Voltage	300 max.	volts
Screen Voltage	200 max.	volts
Screen-Supply Voltage	300 max.	volts
Plate Dissipation ⊕	3.75 max.	watts ←
Screen Dissipation	0.65 max.	watt

Typical Operation and Characteristics - Class A_1 Amplifier:

	*Condition I**	*Condition II***	
Heater★	6.3	6.3	volts
Plate	300	300	volts
Suppressor ◻	0	0	volts
Screen-Supply #	200	300	volts
Series Screen Resistor	-	30000	ohms
Grid ## ●	-3	-3	min.volts
Plate Res.	0.7	0.7	approx.megohm
Transcond.	5000	5000	μmhos
Grid Bias for transcond. = 50 μmhos	-15	-22.5	volts
Plate Cur.	12.5	12.5	ma.
Screen Cur.	3.2	3.2	ma.

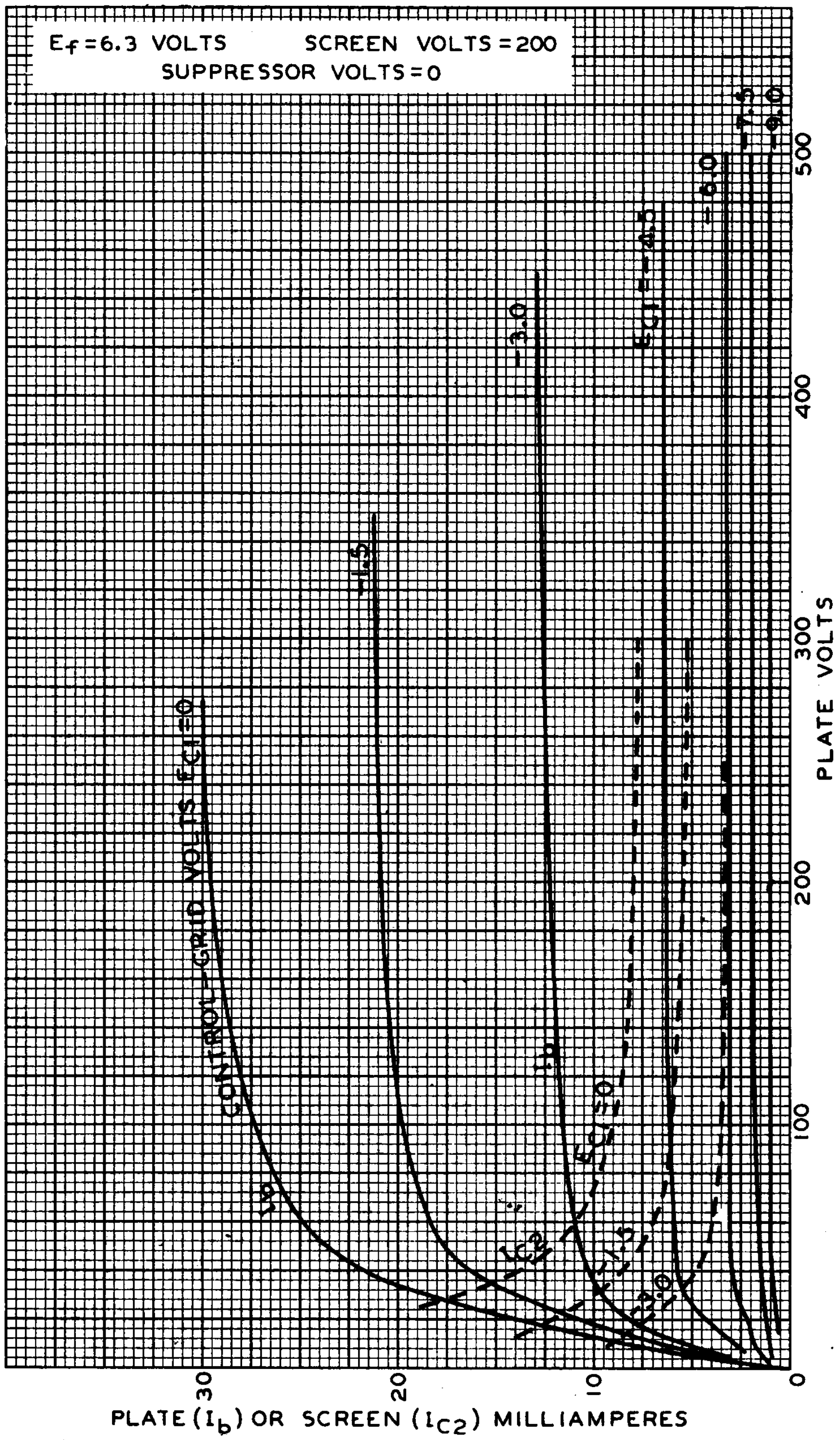
° With shell connected to cathode.
* Condition I is with fixed screen supply.
** Condition II is with series screen resistor.
\# Screen-supply voltages in excess of 200 volts require the use of a series-dropping resistor to limit the voltage at the screen to 200 volts when the plate current is at its normal value of 12.5 milliamperes.
● May be obtained with cathode-bias resistor having a minimum value of 190 ohms.
\#\# The d-c resistance in the grid circuit should not exceed 0.25 megohm with fixed bias, or 0.5 megohm with full cathode bias and a series screen resistor.
⊕ Precautions should be taken to insure that dissipation rating is not exceeded with expected line-voltage fluctuations, expecially in the case of fixed-bias operation.
◻ The suppressor should be connected in r-f and i-f stages directly to ground to minimize feedback.
★ The potential difference between heater and cathode should be kept as low as possible.
Note: It is characteristic of a high gm tube to show appreciable changes of input capacitance and input conductance with plate current. In high-frequency circuits, it is necessary to take precautions to minimize this effect.

← Indicates a change.

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AVERAGE PLATE CHARACTERISTICS



JUNE 21, 1938 RCA RADIOTRON DIVISION 92C-6140

RCA MANUFACTURING COMPANY, INC.